YNK-DBR No. 110
Date 29.10.2020

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

AEE, YSTSD
SBR No: 82/20-21
Date: Date: 21/10/2020

No. First & Part Bill

Division : **EE (Yelahanka Division - Yelahanka Zone)** Sub Division: **Yelahanka Sub-Division**

Bill Received No.....Dated.....Cash Book Voucher No.....Dated.....

Scheduled Docket No. **P-3744**

Name of Work (as per Sanctioned Estimate): **Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -01)**

Reference to Agreement No.: BBMP/EE/YNK.D/E-PMT-12/AG/228/2019-20 Dated 20.03.2020

Work Order No.: BBMP/EE/YNK.D/W.O/263/2019-20 Dated 23.03.2020

Job Code: 003-20-000085 Budget Head: Estimate Cost: Rs.1002 Lakhs

Name of the contractor & full address: **Sri. R. Satheesh**
(M/s Sathya Constructions)
No. 600, Down Bazaar Road, Yelahanka, Bangalore- 560064

Certified that the measurements were checked by me on 17/10/2020 and recorded of pages 495123 to 495131

of Measurements Book No. 4952 and that the work is satisfactorily executed.

Contractor. **Sri. R. Satheesh (M/s Sathya Constructions)**

Officer in charge of the work

Certified that the measurements were taken by me on ..... and found correct.

The work is satisfactorily executed 17/x/2020

AE-3

Certified that the quantities of materials shown in column 3 of Account I have been actually brought to site of the work & the contractor has not previously received any advance of this security. These materials are of an imperishable nature & are all required for immediate use on the work in connection with items for which rates for finished work have been agreed upon. A formula agreement signed & executed by the contractor is recorde is Division office.

Sub Division Officer

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

II MEMORANDUM OF PAYMENT

1.	Total value of work done / supplies made as per Account I	Total- 78HH0852=00
2.	Deduct amount to be held reserve.....present Rs.....	CONST 700365=00
3.	.....Balance.....	SCST 700365=00
4.	Deduct payment:	IT 78HH09=00
	a). Amount of previous payment as in the office Cash Book Voucher No.....Date:.....S.D.No.	LC 78HH09=00
	Amount adjusted towards cash advances recovery of	CBA 78HH0=00
	b) Payments cost of store or other materials Supplied	LR H57101=00
	Now made recovery of amount creditable to this /other work	TD 3505089=00
	Amount paid on this bill by cheque/cash.	CH- 7H93576 3=00
5.	Balance, being unpaid value of work done hold in reserve.	
6.	Deduct cash advance made Division/Sub Divisional Cash book Vr. No. .....Date: .....less adjustments	
7.	Net amount due or from Contractor	
	Unadjusted items	
8.	Advance to contractor for material brought to site (as detailed within)	
9.	Value if Government material supplied	

Contractor's Signature

Received Rs.....(In words)

.....

by cash & adjustment of payment as per memorandum

Witness
1.
2.

Signature of Contractor

Dated .....

Paid by me cheque No.....dated.....

Cash Rs.....dated .....

Initials of Officer making payment

Audited & Admitted for Rs. 78HH0852=00
— Cash
— Adjustment
7H93576 3=00 By Cheque
and Rs. 3505089=00 By adjustment

Executive Engineer

Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work :- Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division. (Package -01)

Job Code: 003-20-000085

RA Bill NO - 01 and Part (ABSTRACT)

Sl No	Description of Work	Unit	As per Schedule- B			Previous		Present		Upto Date	
			Qty.	Rate	Amt.	Quantity	Amount (Rs.)	Quantity	Amount (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12
1	KSRRB Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, by manual means, in area of light jungle, removal of stumps, disposable of unserveacable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / chapter 2	Sqm	7900.00	11.13	87927.00	0.00	0.00	7898.63	87911.70	7898.63	87911.70
2	Removing and resetting of footpath slab	Sqm	4686.00	219.26	1027452.36	0.00	0.00	4685.10	1027255.03	4685.10	1027255.03
3	Removing and resetting of kerb stone	m	3424.00	110.19	377290.56	0.00	0.00	980.00	107986.20	980.00	107986.20
4	KSRRB M200-12.1 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime/Cement concrete I/ By Manual Means A. Lime concrete, cement concrete grade M-10 and below MORTH Specification No. 202	cum	123.80	505.30	62556.14	0.00	0.00	123.30	62303.49	123.30	62303.49
5	Earthwork Excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per directions of the Engineer-in-charge of the work	cum	6206.86	222.38	1380281.53	0.00	0.00	5690.96	1265555.57	5690.96	1265555.57
6	KSRB 4-1.2 Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC@ 220 kgs, with 40mm and down size graded granite metal course aggregates@ 0.892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1,4.2	cum	984.41	5780.92	5690795.46	0.00	0.00	884.87	5115349.67	884.87	5115349.67

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			Qty.	Rate	Amt.	Quantity	Amount (Rs.)	Quantity	Amount (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12
7	Providing TMT Bars Fe 500 steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification and as per directions of the Engineer in charge of work	MT	134.05	75943.33	10180203.39	0.00	0.00	121.87	9255416.69	121.87	9255416.69
8	Providing and laying plain/reinforced cement concrete for side drains walls & bottom thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc complete excluding cost of material as per MORTH specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications	cum	2175.48	7423.71	16150132.63	0.00	0.00	1992.62	14792627.42	1992.62	14792627.42
9	Providing and laying in position plain cement concrete of mix 1:2:4 with cement@ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of materials, labour, HOM complete as per specifications	cum	80.00	5879.98	470398.40	0.00	0.00	0.00	0.00	0.00	0.00
10	Providing and fixing precast reinforced concrete slab 10cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm c/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials(data rate enclosed)	Sqm	6036.30	2453.85	14812174.76	0.00	0.00	5666.40	13904495.64	5666.40	13904495.64
11	Providing and laying precast drain cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm downsize metal with steel reinforcement including form work, lift charges, curing and concrete finished surfaces on both sides etc. complete and as per drawing and direction of Engineer-in-charge of work (data rate enclosed)	Sqm	214.65	5688.90	1221122.39	0.00	0.00	136.64	777302.85	136.64	777302.85
12	Providing and fixing Precast solid concrete kerb stones of size 450 x 200 x 400mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc. complete as per specifications and as per directions of Engineer in charge of work	Nos	7478.00	500.85	3745356.30	0.00	0.00	4560.00	2283876.00	4560.00	2283876.00

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1	2	3	4	5	6	7	8	9	10	11	12
13	Painting two coats after filling the surface with syntetic enamel paint in approved shades on new plastered concrete surfaces with materials, labour complete as per specifications and as per directions of the Engineer in charge of work	Sqm	3394.00	89.04	302201.76	0.00	0.00	1516.50	135029.16	1516.50	135029.16
14	Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force therby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications and as per directions of the Engineer in charge of work	Sqm	375.00	1171.99	439496.25	0.00	0.00	0.00	0.00	0.00	0.00
15	KSRRB M300-50 Scarifying Bituminous course 50mm to 75mm thick along with premix carpet/ surface dressing by Mechanical Means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications MORTH V chapter 3	Sqm	1144.00	57.66	65963.04	0.00	0.00	1144.00	65963.04	1144.00	65963.04
16	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes,in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and as per directions of the Engineer in charge of work.	cum	2549.16	59.88	152643.70	0.00	0.00	2548.38	152596.70	2548.38	152596.70
17	Construction of Granular Sub-Base Grading V as sub base and drainage layer by providing coarse stone aggregates of granite / trap / basalt material, mixing by mix in place method with rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and and compacting with vibratory roller to achieve 98% proctor density, complete as per specifications.and as per directions of the Engineer-in-charge of the work	cum	1274.58	1947.75	2482563.20	0.00	0.00	1274.26	2481945.76	1274.26	2481945.76
18	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per directions of the Engineer-in-charge of the work	cum	1699.44	2101.34	3571101.25	0.00	0.00	1699.60	3571426.96	1699.60	3571426.96

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1	2	3	4	5	6	7	8	9	10	11	12
19	Compaction of original ground by mecahnical means including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specificationsnd as per directions of the Engineer-in-charge of the work	Sqm	8497.20	6.68	56761.30	0.00	0.00	8497.15	56760.96	8497.15	56760.96
20	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and as per directions of the Engineer-in-charge of the work	Sqm	13863.36	35.62	493812.88	0.00	0.00	11531.90	410766.19	11531.90	410766.19
21	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications and as per directions of the Engineer-in-charge of the work	Sqm	35947.30	5.57	200226.46	0.00	0.00	18229.25	101536.92	18229.25	101536.92
22	Providing and laying dense graded using 120 TPH capacity Asphalt Batch Mix plant with sensor paver GR-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen crushed aggregates of specified grading premixed with VG30 grade bituminous binder and transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all aspects complete as per specifications. Clause 505 of MORTH V revision	cum	693.20	8001.36	5546542.75	0.00	0.00	576.64	4613927.23	576.64	4613927.23
23	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and as per directions of the Engineer-in-charge of the work	Sqm	45073.60	13.36	602183.30	0.00	0.00	24493.91	327238.64	24493.91	327238.64
24	Providing and laying bituminous concrete 40mm thick with hot mix plant using 40-60 TPH capacity HMP with mechanical paver grading -II (30-45 mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crused aggregates of specified grading premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all aspects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015	cum	1700.35	9134.39	15531660.04	0.00	0.00	979.64	8948425.20	979.64	8948425.20

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1	2	3	4	5	6	7	8	9	10	11	12
25	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per directions of the Engineer-in-charge of the work	Sqm	2378.10	477.48	1135495.19	0.00	0.00	1027.85	490777.82	1027.85	490777.82
26	KSRRB M800-35 Supply and installation of Moulded shank raised pavement markers made of polycarbonate and ABS (Acrylonitrile Butadience Styrene) moulded boady and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to specifications of category A of MORTH Circular No. RW/NH/33023/10-97- Do III Dt. 11.06.1997. The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the Engineer	Nos	3532.00	375.08	1324782.56	0.00	0.00	0.00	0.00	0.00	0.00
27	Supply and fixing of Retro- reflective Single arrow Road Name Signboard of size 1600mm x 900mm made out of reflective sheeting conforming to Type XI stands of ASTM D 4956-09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4mm thick Aluminium composite material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS Angle of 15 mm x 20 mm x 1.2 mm supported by 38mm OD stainless steel pipe all around in 304 grade and 2 Nos of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in colour with letters and border in white, the item includes earthwork excavation, cost of all materials, loading,unloading, lead, lift, transportation etc. complete as per direction of Engineer in charge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from	Sqm	4.32	14799.56	63934.10	0.00	0.00	0.00	0.00	0.00	0.00

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			Qty.	Rate	Amt.	Quantity	Amount (Rs.)	Quantity	Amount (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12
28	Direction and Place Identification Signs with more than 0.9 sqm Size Board:-Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm 2 Nos firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing	Nos	23.49	7935.69	186409.36	0.00	0.00	0.00	0.00	0.00	0.00
	SUB TOTAL				87361468		0.00		70036475		70036475
	GST			12%	10483376	12%	0	12%	8404377	12%	8404377
	TOTAL				97844844		0		78440852		78440852

CERTIFICATE

Certified that the work is done satisfactorily

Contractor

Assistant Engineer

AE-3

Assistant Executive Engineer

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore